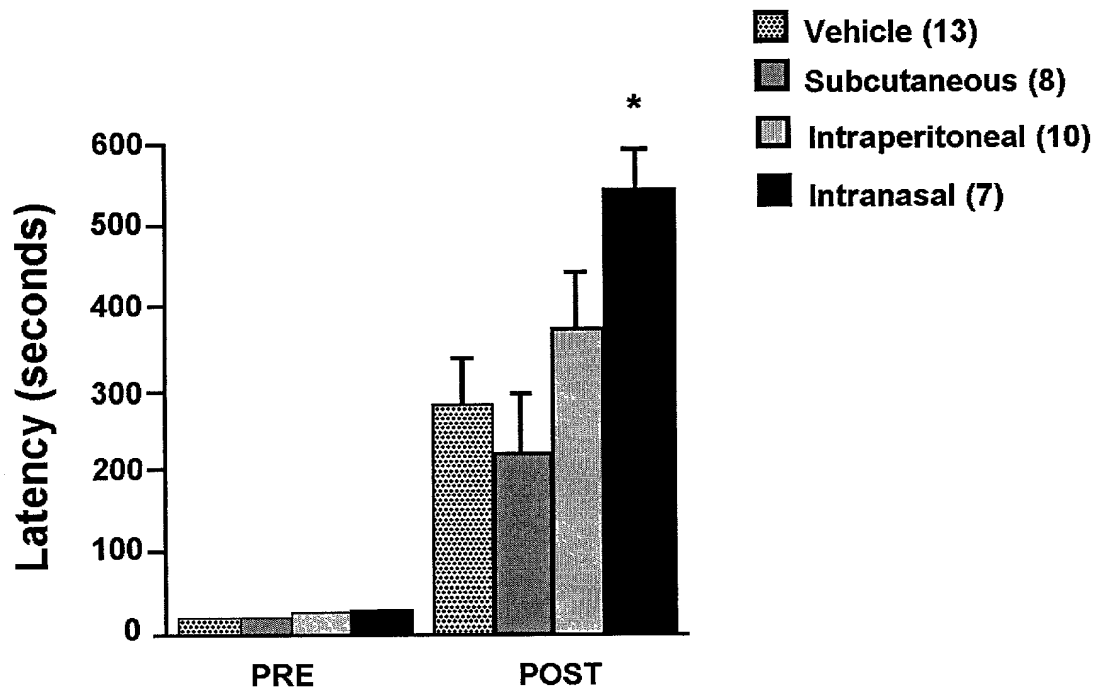


Fig. 1

### Effects of Gilatide (33 $\mu$ g/kg) on PAR Via Different Routes of Administration



**Fig. 2**

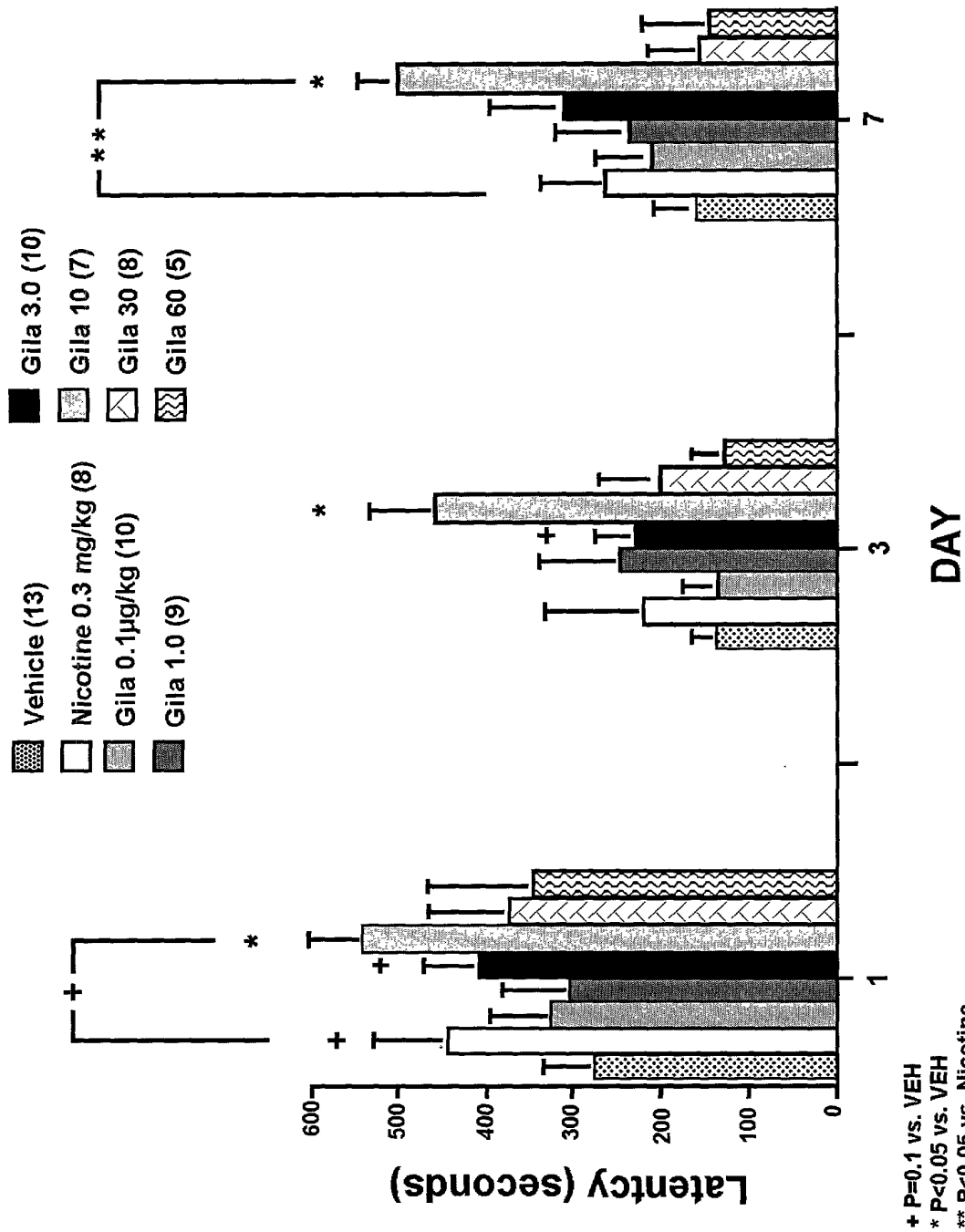


Fig. 3

+ P=0.1 vs. VEH  
 \* P<0.05 vs. VEH  
 \*\* P<0.05 vs. Nicotine

Effects of Gilatide on Consolidation of  
Passive Avoidance Learning

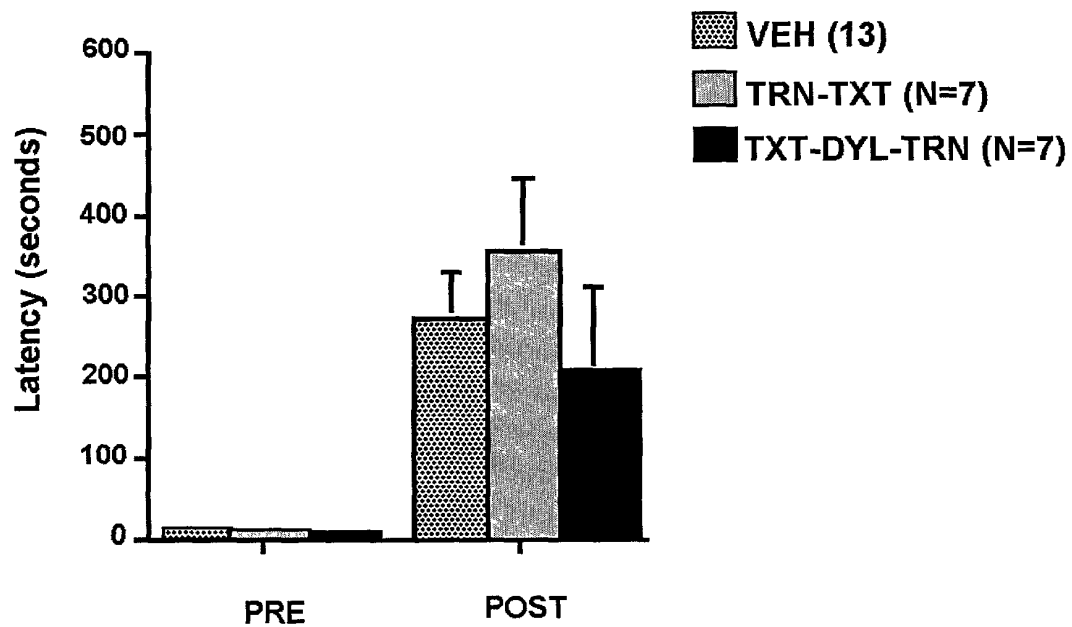
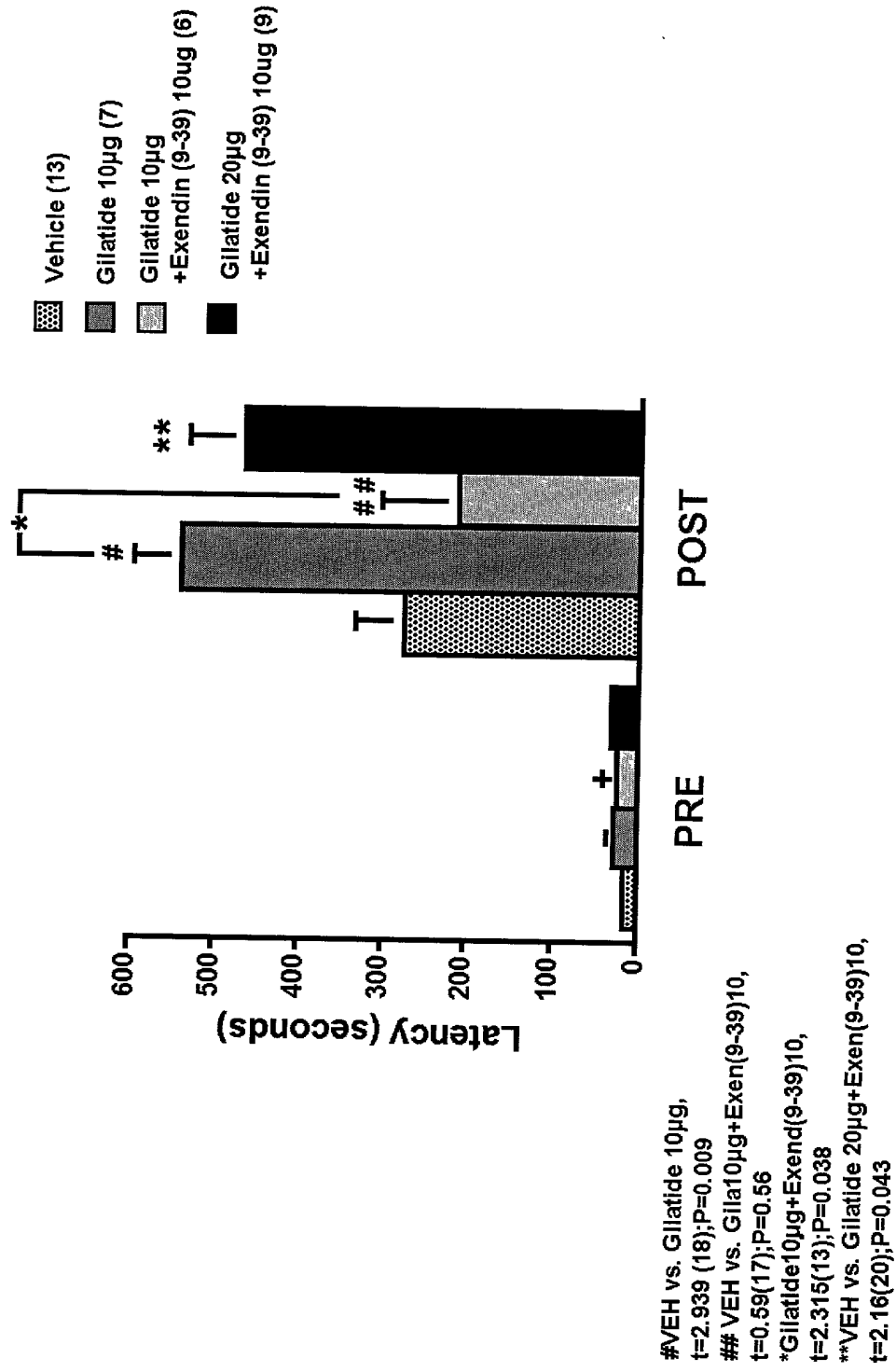


Fig. 4

Fig. 5



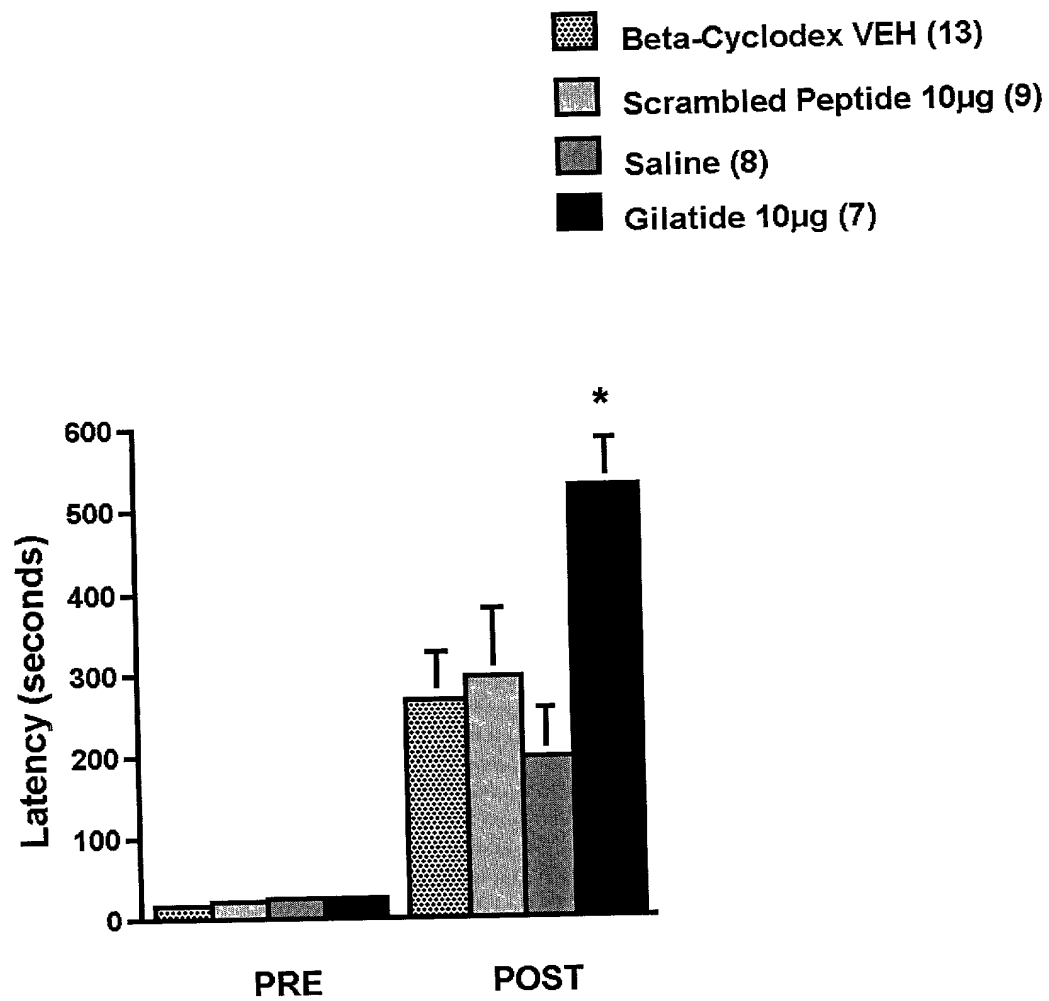


Fig. 6

## Effects of Gilatide on Locomotor Activity (n=5/group)

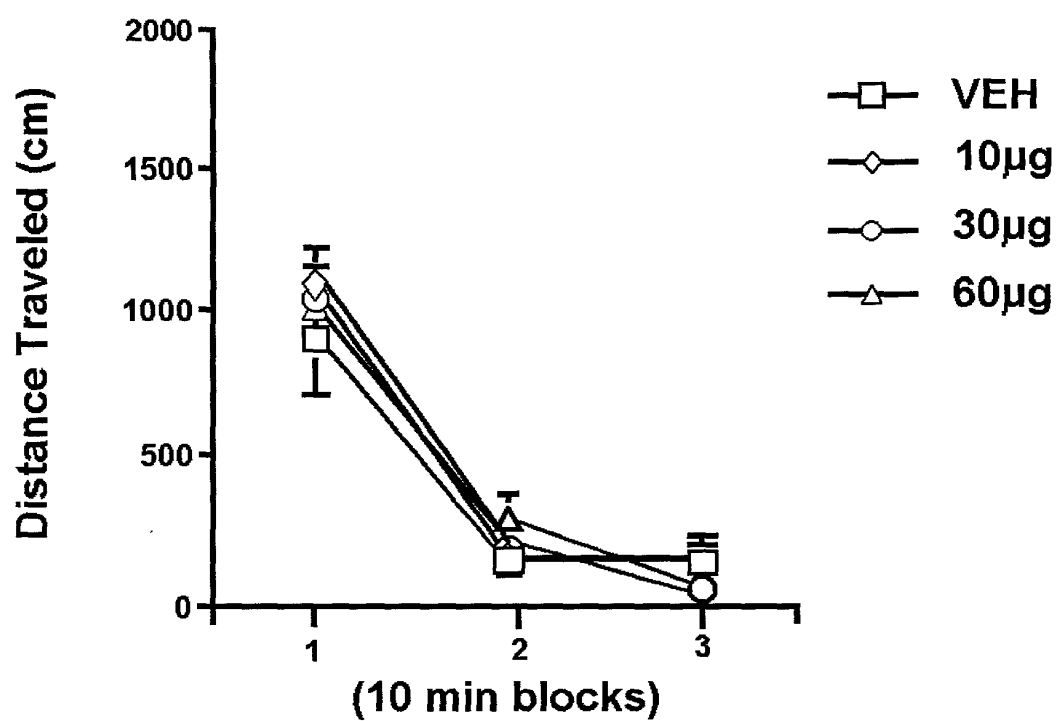
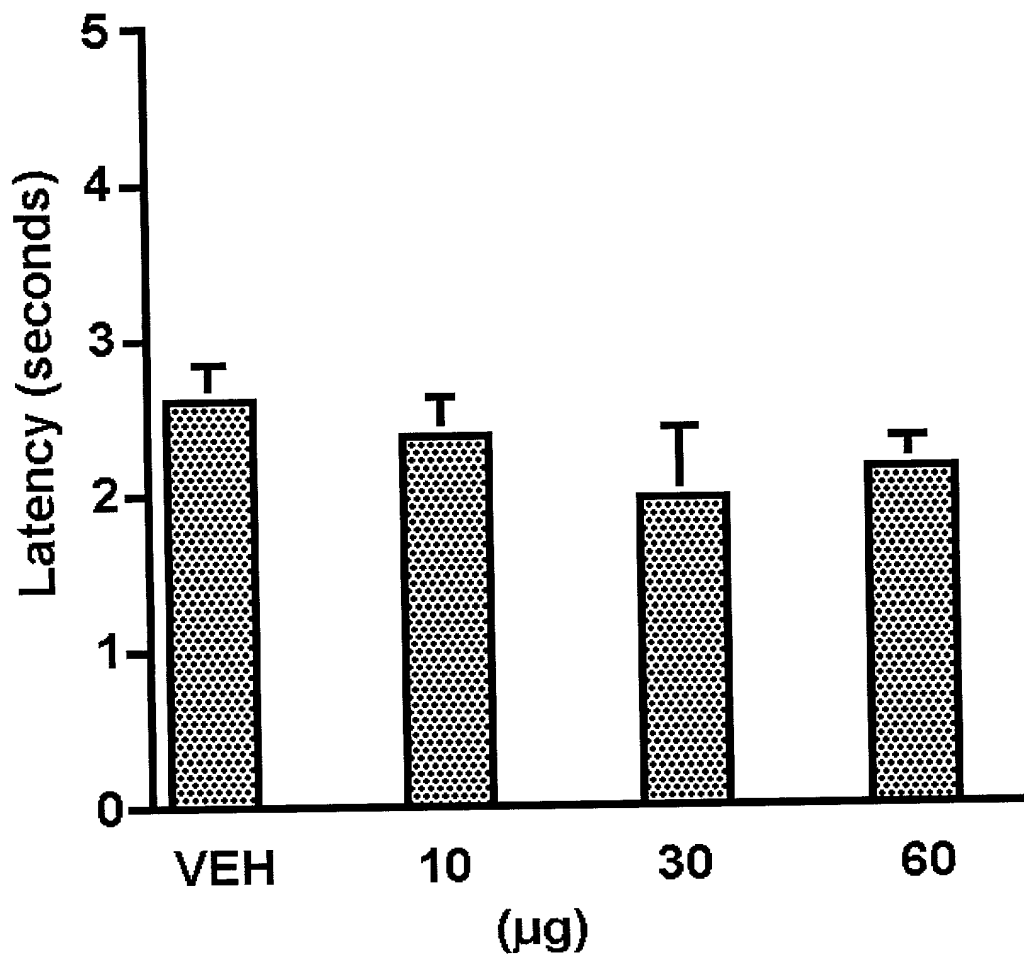


Fig. 7

**Effects of Gilatide on nociception  
(tail-immersion assay; n=5)**



**Fig. 8**



Acute administration of Gilatide has no significant effects on food or water intake

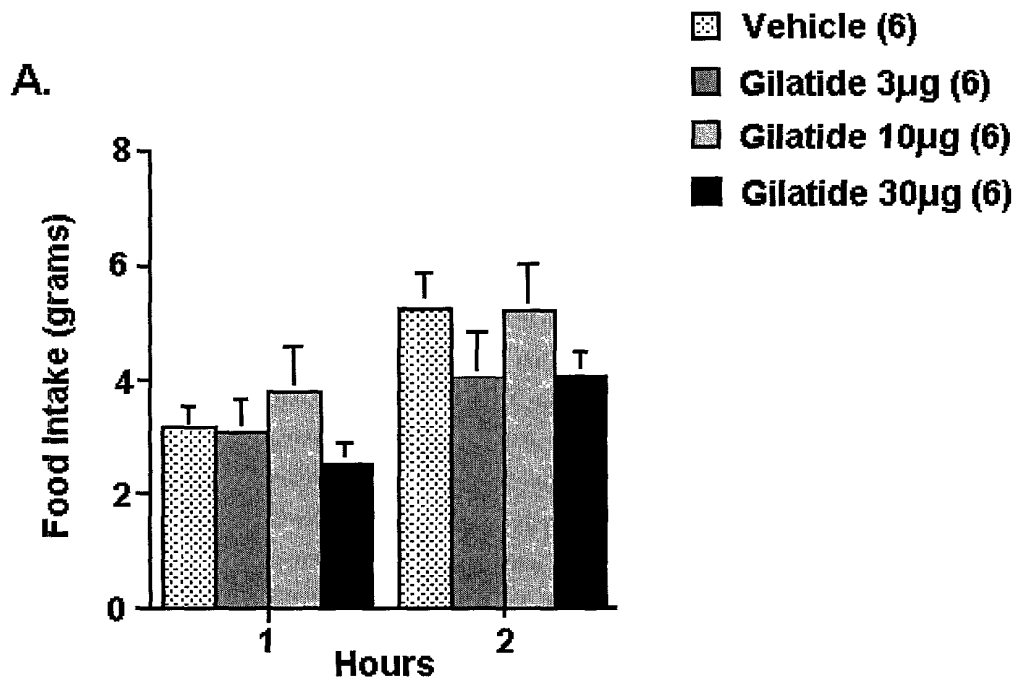


Fig. 9a

Acute Administration of Gilatide has no significant effects on food or water

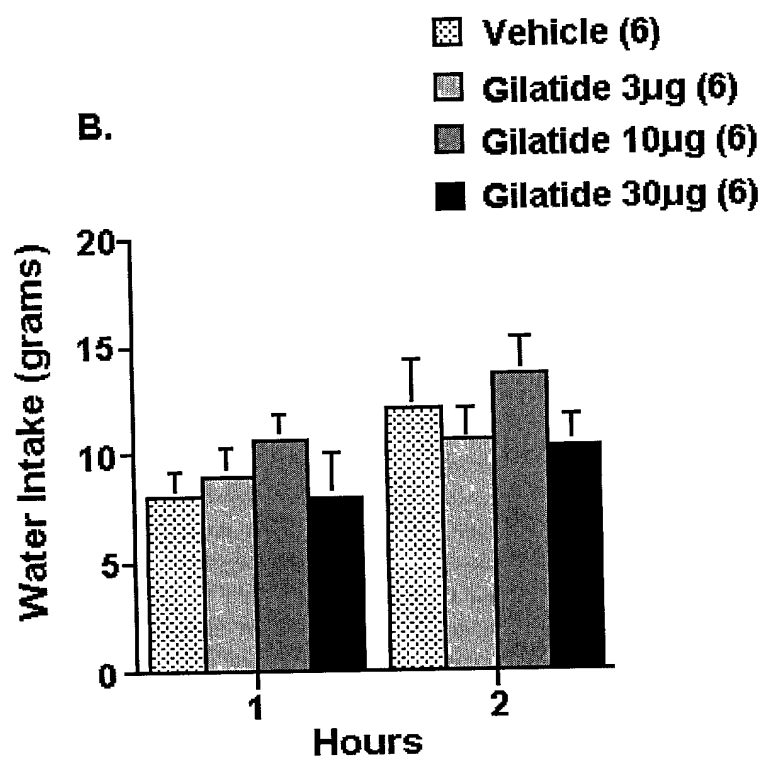
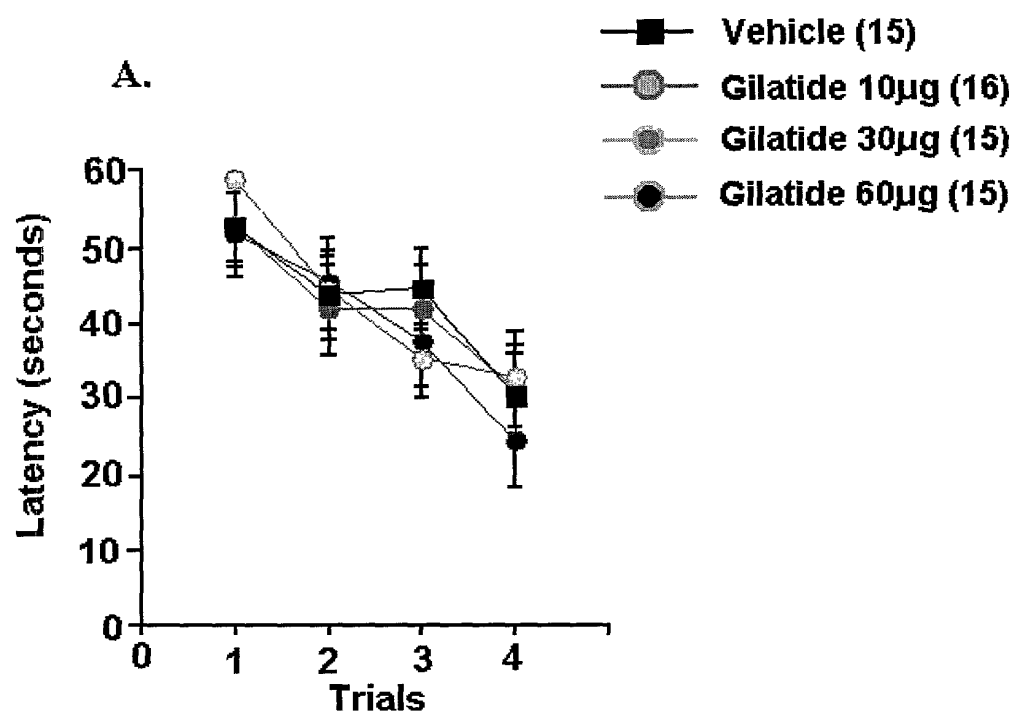


Fig. 9b

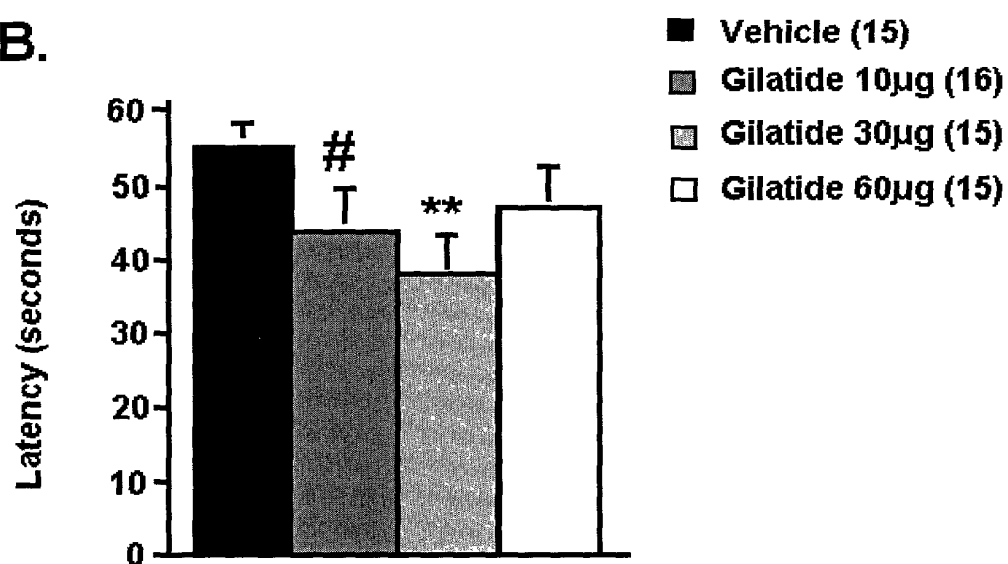
**Gilatide facilitates Retention (48hrs) of spatial learning in the Morris Water Maze task**



**Fig. 10a**

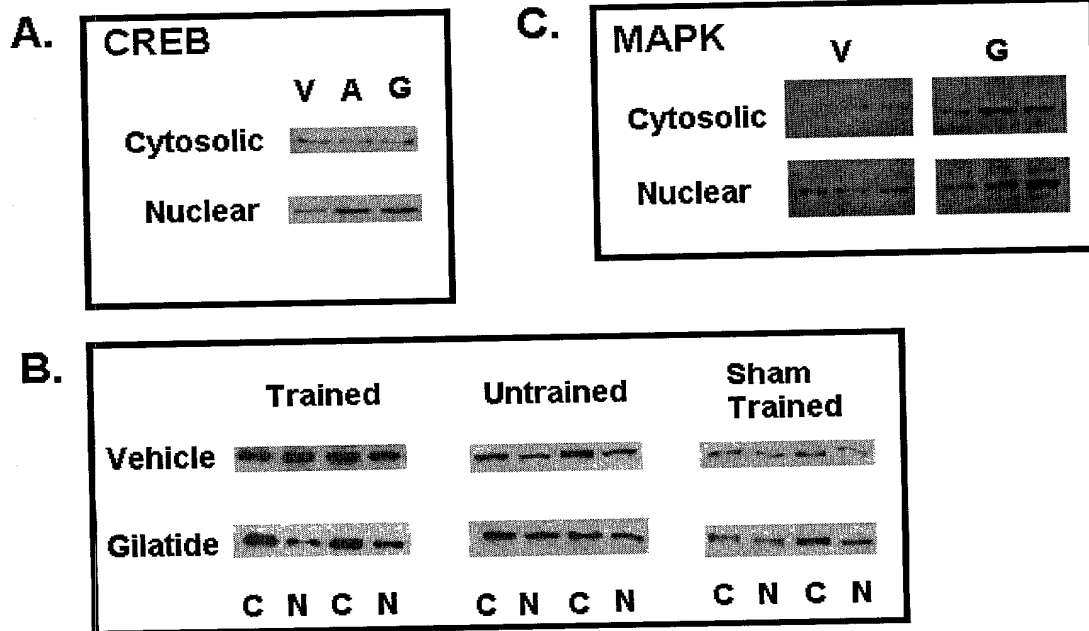
**Gilatide facilitates Retention (48hrs) of spatial learning in the Morris Water Maze task**

**B.**



**Fig. 10b**

# **Gilatide (10 $\mu$ g) enhances CREB and MAPK immunoreactivity in the hippocampus**



**Fig. 11**